AUSTRALIAN PATENT OFFICE

WRITTEN OPINION

		Date of mailing day/month/year	2 8 JUN 2007	
Applicant's or agent's file reference LPN/LWC/NJ/K.2006004814		REPLY DUE within FIVE MONTHS of the date of the Registrar's letter enclosing the written opinion		
		Date (day/month/year) Priority Date (day/month/year)		
SG 200603679-2	3 December 2004		3 December 2003	
International Patent Classification (IPC) (as	indicated in the search	report)		
Int. Cl.				
	0 (2006.01)	<i>G03F 7/20</i> (2006.01	i)`	
Action Date: 20 June 2007				
plicant NIKON CORPORATION (JP)		•		
MINON CORPORATION (31)				
1. This First written opinion consists of	a total of 6 sheets.		•	
2. This opinion contains indications relati	ng to the following iten	nś:.	· · · · · · · · · · · · · · · · · · ·	
I X Basis of the opinion	I X Basis of the opinion			
II Priority	Transmit in the second of the			
III Non-establishment of op	III Non-establishment of opinion with regard to novelty, inventive step and industrial applicability			
IV X Lack of unity of invention				
Reasoned statement with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement				
VI Certain documents cited	VI Certain documents cited			
VII Certain defects in the ap	VII Certain defects in the application			
VIII X Certain observations on	the application		·	
3. The search report used was issued by the	he Australian Patent	Office, and the date o	f completion is: 20 June 2007	
4. If no reply is filed, the examination rep	ort will be established	on the basis of this op	inion.	
5. The date by which the examination report will be established is: 3 September 2008				
	•			
Name and mailing address		Authorized Officer		
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Lawmine Ro. UL 2 U20JJ727				

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I.	Basis of the opinion			
1.	This opinion has been drawn on the basis of:			
	X the application as originally filed.			
	the description, pages , as originally filed, pages , filed with the request, pages , received on with the letter of			
	the claims, pages , as originally filed, pages , filed with the request, pages , received on with the letter of			
· (the drawings, sheets/fig., as originally filed, sheets/fig., filed with the request, sheets/fig., received on with the letter of			
	the sequence listing part of the description: pages , as originally filed pages , filed with the demand pages , received on with the letter of			
2.	The amendments have resulted in the cancellation of: sheets of drawings/figures No: This opinion has been established as if (some of) the amendments had not been made, since they have been considered go beyond the disclosure as filed, as indicated in the Supplemental Box.	to		
4	Additional observations, if necessary:			
		•		

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IV.	Lack of unity of invention			
1.	This Office found multiple invention in this application, as follows:			
	There are multiple inventions in this application, as follows:			
	The application does not comply with the requirements of unity of invention because it does not relate to one invention or to a group of inventions so linked as to form a single inventive concept. In coming to this conclusion this Office has found there are two inventions:			
·	1. Claims 1-51 are directed to a liquid immersion exposure device for transferring a pattern onto the substrate by using a projection optical system. It is considered that the liquid immersion exposure for a substrate comprises a first "special technical feature".			
Ċ	2. Claims 52-56 are directed to the structure of an optical part. It is considered that the optical part comprises a second separate "special technical feature".			
Since the abovementioned groups of claims do not share either of the technical features identified, a "technical relationship" between the inventions, does not exist. Accordingly, the application does not relate to invention or to a single inventive concept. Since, the search for the second invention was done with a negligable additional effort over that for the first one; all claims 1-56 were examined in establishing this report.				
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2.	Consequently, the following parts of the application were the subject of examination in establishing this report:			
	X all parts.			
	the parts relating to claims Nos.			

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YES

NO

V. Reasoned statement with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement

Supporting agent statement					
- 1	I. Statement		•	•	
	Novelty (N)	Claims 1-51	•	YES	
		Claims 52-56	•	NO	•
	Inventive step (IS)	Claims 1-51		YES	
	·	Claims 52-56		NO	
. I					

2. Citations and explanations

Industrial applicability (IA)

The following document identified in the ISR have been considered for the purpose of this opinion:

Claims 1-56

Claims

D1: JP 10-303114 A (NIKON CORP.) 13 November 1998

D2: JP 11-176727 A (NIKON CORP.) 02 July 1999.

D3: US 2003/0139620 A1 (Yamaguchi et al.) 24 July 2003

NOVELTY (N)

D1 & D2 disclose an exposure device which exposes a substrate by radiating an exposure light beam onto the substrate through a liquid. The exposure device comprises a projection optical system for projecting an image onto the substrate and a substrate table for holding the substrate. D1 & D2 fail to disclose that a member having a liquid repellent surface is provided exchangeably on the substrate table. Hence, claims 1-51 are novel.

D3 discloses an optical member (paragraph 0056). The optical member comprises a part body (item 1, paragraph 0069) which has a light irradiated surface (paragraph 0078), an antireflection layer including a surface layer in the form of a silicon dioxide base inorganic layer and an antifouling layer (or water-repellent layer) on the surface layer (paragraphs 0021 and 0027). The antifouling layer (or water-repellent layer) is made of fluororesin (paragraphs 0002). Thus, all essential features of claims 52 & 53 are disclosed in D3.

D3 also discloses an adhesive layer (item 2, paragraphs 0080-0081) may be formed on the substrate in a conventional manner (paragraph 0083). Hydrogen fluoride is a well known chemical for surface etching. Hence, claims 54-56 are not novel.

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VIII.	Certain observations on the application				
The fo	llowing observations on the clarity of the claims, description, and drawings or on the question whether the claims are fully ted by the description, are made:				
	9 is not fairly based.				
In clai descri	In claim 9, the essential feature "liquid -repellent member" is not disclosed. Hence, there is inconsistency between the description and proposed claim 9, rendering claim 9 not fairly based.				
:					
(1					
,					
X	The claimed invention is patentable according to Section 13(2); or				
التبتا	The claimed invention is unpatentable according to Section 13(2) because:				
	This application is a Divisional application filed under Section 26(6) of the Patents Act and discloses no additional matter extending beyond that disclosed in the Parent application.				

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Sup	plement	al Box	X

(To be used when the space in any of Boxes I to VIII is not sufficient)

Continuation of Box [No.]:

INVENTIVE STEP (IS)

The subject matter of claims 52-56 is also obvious and lacks an inventive step for the same reason as stated above.

The subject matter of claims 1-51, is neither known nor rendered obvious by the prior art documents D1 & D2. Hence, claims 1-51 are inventive.

INDUSTRIAL APPLICABILITY (IA)

The invention defined in claims 1-56 meets the requirements of Industrial Applicability because it can be made by, or used in, Industry.